

Shiv Nadar Institution of Eminence

Water conscious building standards

At Shiv Nadar Institution of Eminence, all buildings have been designed and developed conforming to water conscious and efficient standards. The buildings including the 120,000 square ft. sports complex, are certified by the Leadership in Energy and Environmental Design (LEED). The LEED Gold-certified buildings have state-of-the-art water harvesting and water-efficient plumbing fixtures and in-built efficient water conservation systems, including water meters, efficient taps, and waterless urinals. Also, it is certified by the Indian Green Building Council (IGBC) which has extensive requirements for water conservation and mandatory requirements of rainwater harvesting (roof or non-roof) and water-efficient plumbing fixtures. The university meets both these requirements, including 15% of the credits that impact water resources.

Some of the key features of water efficiency renovations, building designs, and upgradation are

1.1 Infrastructure

1.1.1 All washrooms are equipped with press-matic taps that regulate water flow to prevent the wastage of water.

1.1.2 A rainwater harvesting system is installed campus-wide in all the buildings. Stormwater drainage systems are present near pavements, and rainwater harvesting systems are present in buildings as well, then the water is filtered and released into an artificial lake and a natural lake.



Stormwater drainage and catchment

1.1.3 The university is IGBC LEED certified with processes to conserve water and increase water efficiency in place. One of the key areas of IGBC green homes is water efficiency. In addition, the upgrade of the building is planned with an increase in measures and upgrades centered around environmental protection, including water efficiency measures.

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Rooftop Rainwater harvesting

1.1.4 Water-saving process during development:

1.1.4.1 During the construction process, it is ensured that only the minimum amount of water is used.

1.1.4.2 Hessian Cloth/Gunny Bag Usage for Water Curing, which helps in the reduction in usage of potable water.



Figure 8 Gunny bags are used to reduce water usage

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1.2 Maintenance

1.2.1 All washrooms and taps are maintained regularly to prevent water wastage.

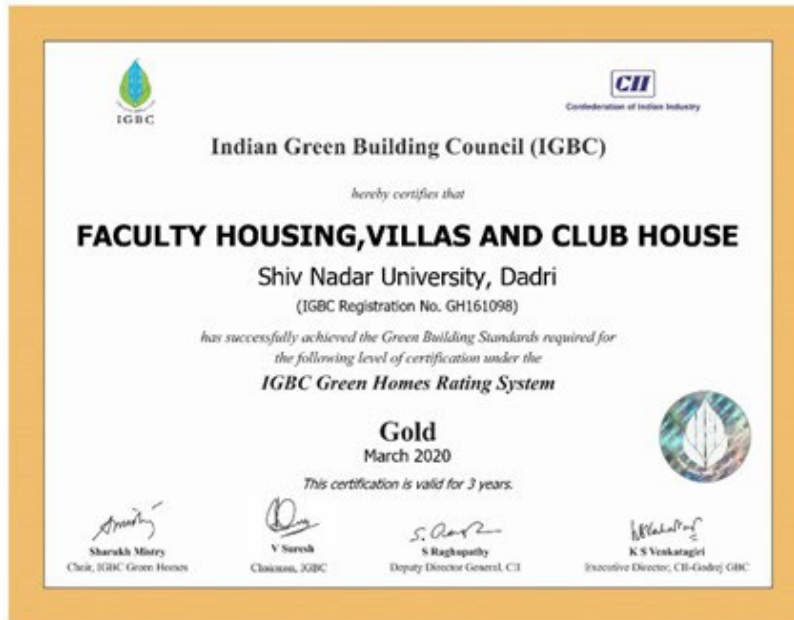
1.2.2 QR Codes are present in hostel and washroom facilities for students and staff to scan the codes and mention their complaints or report any issue in the washrooms.

1.2.3 Housekeeping: All staff responsible for cleaning are trained to use only the necessary amount of water for cleaning or maintenance purposes.

Certifications for Sustainable Building Design for water efficiency



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